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ABSTRACT

First of a series of 6 publications containing environmental education activities, this booklet by the Upper Mississippi River ECO-Center describes 12 environmentally-based art and music activities for elementary and intermediate grades. Each activity description contains objectives, preparation, materials, directions, student evaluation, and variations where appropriate. Eight art projects teach basic art concepts, the artistic use of natural objects and throw-aways, materials combination, aesthetics, and texture awareness by means of the following outdoor oriented activities: dried material arrangements, sand castings, sand paintings, tracings, observations of nature, drawing with natural objects, and bur sculpture. The four music activities--music in the study of animals, music made from articles found in nature, original songs, and selections pertaining to outdoor activities and sounds--teach the uses and history of various instruments and an awareness of rhythm. (SB)

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101 ENVIRONMENTAL EDUCATION ACTIVITIES

BOOKLET 1

ART AND MUSIC ACTIVITIES

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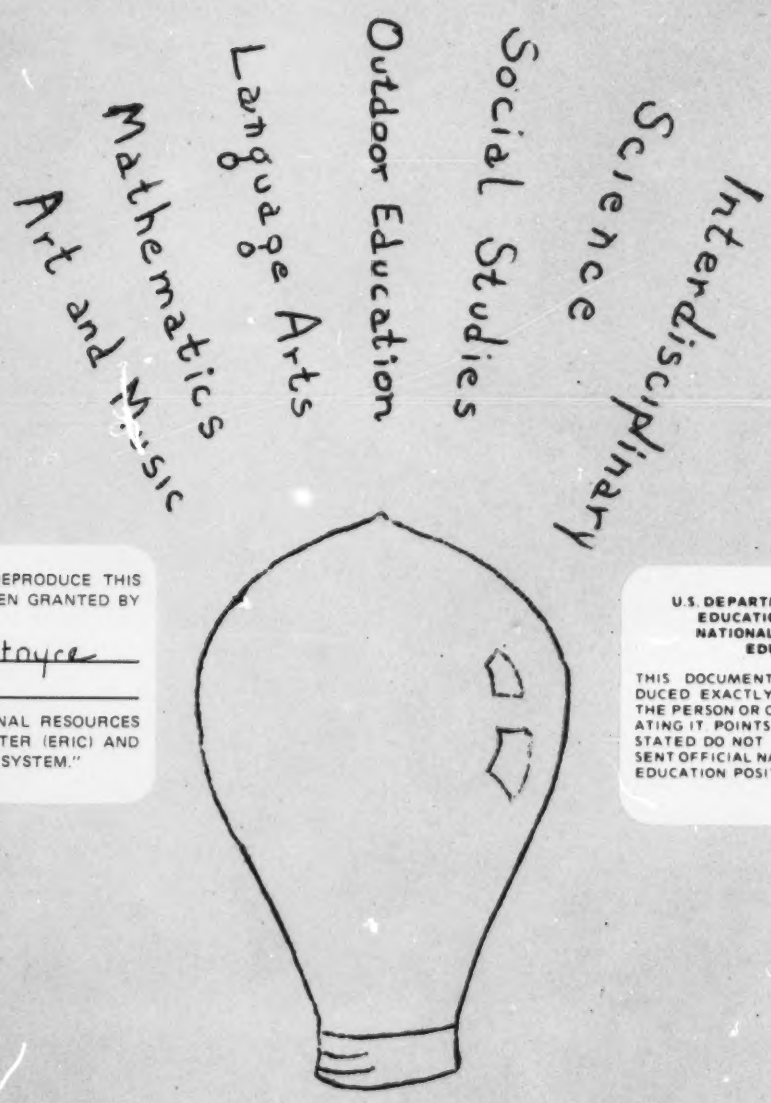

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The Upper Mississippi River ECO-Center
Title III, ESEA
Thomson, Illinois

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101 Environmental Education Activities

Booklets:

1. Art and Music Activities
2. Language Art Activities
3. Mathematics Activities
4. Science Activities
5. Science and Social Studies (Interdisciplinary) Activities
6. Social Studies Activities

ART AND MUSIC

Contents

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2.....	Dried Material with Throw-aways
3.....	Sand Castings
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5.....	Drawing with Natural Materials
6.....	Tracings
7.....	Bur Sculpture
8.....	Shapes and Lines in Nature
9.....	Music in the Study of Animals
10.....	Music Made from Articles Found in Nature
11.....	Pupils' Environmental Songs
12.....	Music for Outdoor Activities

Art Suggestions

Useful throw-aways

- string
- paper sacks
- ice cream, cottage cheese & other cartons
- ice cream & lollypop sticks
- foil pans
- egg cartons
- old oilcloth & plastic
- felt scraps
- shelf paper
- wire
- cardboard & corrigated paper
- colored paper scraps
- newspapers
- sponges
- mailing tubes
- paper towel, toilet tissue tubes
- boxes
- waxed or plastic milk cartons
- juice & other cans
- plastic can & bottle lids

Fall is the time to gather roadside weeds, grasses and pods for winter bouquets, wall plaques, pictures, or Christmas decorations. Think about using pieces of weathered wood and fungus in some of your projects. Wild seeds make beautiful pictures. (This gets rid of lots of weed seed.)

Materials suitable for use with the larger and heavier roadside plants are:

- burlap
- felt
- leather (Have you tried old purses?)
- coat hangers
- wooden beads
- log sections
- corrigated & rough packing paper
- copper wire
- cork
- pieces of tile and small rocks

Smaller more delicate plants may be combined with:

- sequins
- glass beads
- tissue paper
- pipe cleaners
- florist's wire
- colored thread

Activity: Dried material arrangement

Discipline area: Art

Objectives:

1. Children learn that effective arrangements can be made with natural dry materials.

Preparation:

1. dried materials
2. material for backgrounds: bark, weathered board, log sections, cardboard, etc.

Activity:

1. On an outdoor experience children gather naturally dried materials.
2. Children make arrangements by gluing materials to background.

Evaluation: Each child should complete one project.

Variations: Arrange winter bouquets using pickle jars, arrange minature bouquets in lids by inserting stems in modeling clay and then screw jar over the top.

Activity: Field Art Project-Dried materials with throw-aways.

Discipline area: Art

Objectives:

1. Pupils will learn artistic value of natural dry materials.
2. Pupils will demonstrate way in which dried materials may be combined with throw-aways.

Learning Activities:

1. Pupils gather throw-away material - jars, plastic and/or aluminum trays, plastic lids and protectors.
2. Pupils gather dried materials.
3. Pupils make bouquets, trays, plaques, pictures, etc. using throw-away with dry material

Evaluation: Each pupil completes one project.

3

Activity: Sand Castings

Discipline area: Art

Objectives:

1. Children learn to combine materials for artistic effect.
2. Children learn value of a natural area for art projects.

Procedure:

1. Buy Plaster of Paris.
2. Find a suitable sandy area and make impressions to be cast. Small objects may be imbedded in sand to make cast.
3. Prepare and pour plaster.
4. When plaster has set, carefully remove cast and brush lightly.
5. A paper clip may be inserted on top before drying to make a hanger.

Evaluation: Each pupil completes one plaque.

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Activity: Sand Paintings

Discipline area: Art

Objectives:

1. Children learn to locate and use natural objects for field art.
2. Children may learn that natural objects may be combined with commercial products to produce a desired effect.

Preparation and supplies:

1. large sheets of cardboard
2. white glue
3. containers for sand
4. possible dry paint powder for coloring sand. Only primary colors.
5. pencils for drawing design.

Activity:

1. Children locate and get containers of sand; different colors if possible.
2. If only one colored sand is found, mix small amount of colored powder paint with some of the sand to produce different colors.
3. Draw design on cardboards.
4. Spread white glue on all area to be the same color.
5. Shake sand on cardboard, let stand few minutes, and gently shake.
6. Repeat process for each color.

Evaluation: Each child should complete one project.
Project may be used with the study of southwestern Indians.

Activity: Field Art-Drawing with natural dyes, bonfire charcoal, rocks, etc.

Discipline area: Art

Grade level: Primary and intermediate

Objectives:

1. Pupils learn that some plants yield natural dyes suitable for drawing.
2. Pupils will learn the artistic value of using natural products for drawing natural objects.

Activities:

1. Children gather plants to test for color quality.
   a. Grasses, leaves, bark, flowers, sticks, rocks, or any other natural object should be tested.
   b. Sandpaper makes a good testing medium; it is also good for drawing.
   c. Care should be taken that no protected or scarce plants are gathered; only abundant ones.
2. After gathering material children draw pictures.
   a. Picture may first be sketched with bonfire charcoal.
   b. Plants are used as crayons.

Evaluation: Each child should complete one picture.

Avtivity: Tracings made of natural objects

Discipline area: Art

Grade level: Primary, intermediate

Objectives:

1. Children will learn to look at textures in nature.
2. By making rubbings the children will better appreciate the beauty of natural textures.

Materials needed:

1. large sheets of newsprint, about 11" x 18"
2. masking tape
3. large crayons or charcoal

Procedure:

1. Each child chooses a textured surface to make a rubbing.
2. Fasten sheets of newsprint to the surface with masking tape.
3. Using flat side of crayon or piece of charcoal, the children go over the surface of the paper. Care must be taken to make strokes only in one direction. Light even strokes will prevent tearing paper.
4. Finished rubbings may be mounted, used for an unusual bulletin board display, used as gift wrapping, or used as backgrounds for sketches or for mounting pictures.

Evaluation: Each child should do one rubbing. Better pupils may choose to make several to use in different ways.

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Activity: Field Art Project -Bur sculpture

Discipline area: Art

Objectives:

1. Pupils will demonstrate artistic use of objectionable materials.

Learning activities:

1. Gather burs (burdock, cockleburs)
2. Children will make some artistic object using burs; e.g. baskets, animals, relief pictures.
3. Children will demonstrate artistic insight by combining other natural materials with burs; e. g., grass for animal whiskers, corn silk for hair, etc.

Evaluation: Each pupil will complete one project.

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Activity: Shapes and lines in nature (Art on a ten-minute hike)

Discipline area: Art

Grade level: Primary, intermediate

Objectives:

1. By looking for specific shapes children will increase powers of observation.
2. By observing specific shapes the children will relate basic art concepts to outdoor activities.

Materials needed: clipboards
worksheets
pencils
drawing paper
crayons or charcoal

Activities:

1. Each child is given a worksheet, pencil and clipboard.
2. Children take a short hike marking the lines they see on their worksheets.
3. When they return to the classroom the children use lines and shapes to make drawings of things they saw on their hike.

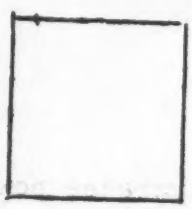
(Example of Worksheet)
on next page.

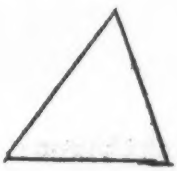
Worksheet for Shapes and Lines in Nature

Under each entry write the name of something that you saw.

Straight	Circle	Wavy	Zigzag	Curving	Spiral (for older pupils)

What things did you see that had the following shapes?





What colors did you see?

How many shades of green did you see?

How many shades of brown did you see?

How many shades of red did you see? Don't forget to look at buildings.

From: Music and Outdoor Education compiled by Debbie Furniss, Diane E. Smith, and Terry L. Smith.

Activity: Music in the study of animals

Discipline area: Music

Objectives:

1. Children will better understand the relationship of animal sounds and music.
2. Children will learn of ways composers use various instruments to reproduce animal sounds.

Materials needed:

Recording of "Carnival of the Animals" by Saint Saens or "Beauty and the Beast" from The Mother Goose Suite by Ravel.

If possible instruments mentioned should be available to demonstrate the sounds as they are studied.

Activities:

Poetry

I WILL BE A LION
AND YOU SHALL BE A BEAR,
AND EACH OF US WILL HAVE A CHAIR
BENEATH A NURSERY CHAIR!
AND YOU MUST GROWL AND GROWL AND GROWL,
AND I WILL ROAR AND ROAR,
AND THEN-WHY THEN, YOU'LL GROWL AGAIN,
AND I WILL ROAR SOME MORE!!

Evalean Ste.n

This poem can be used in the study of outdoor animals. While acting out the words, the children could listen to "Carnival of the Animals" by Saint Saens or "Beauty and the Beast" from The Mother Goose Suite by Ravel. They could discuss the composer's tools for describing the various animals. Some of the tools may be dynamics, the tempo, and the instruments used. At this point, they can compare the animals with the sounds of the instruments.

i.e. piccolo-----birds
flute-------birds
clarinet----cats
tuba--------elephant and hippopatamus
snare drum--woodpeckers

From: Music and Outdoor Education compiled by Debbie Furniss, Diane E. Smith, and Terry L. Smith.

Activity: Music made from articles found in nature.

Discipline area: Music

Objectives:

1. Children will learn that modern instruments have developed from primative instruments which early men made from natural objects.

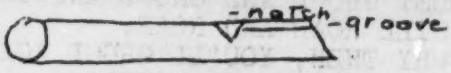
Materials needed: hollow reeds, assorted shells, willow branches, forked sticks, rubber bands, gourds, assorted seeds walnuts, glue, drill, knife, string, screws, shellac.

Activities:

Pipes of Pan: Cut three hollow reeds, elder, rushes, or small cornstalk with joint at one end of each piece. Blow across the hollow tube. The longest pipe will give the lowest tone.

Sea Shell Blower: Make a snail shell into a flute by blowing across the small opening.

Willow Whistle: Spring is the best time of the year to make a willow whistle; the sap will be running and the bark will be moist and loose. Break off a branch. At one end of branch smooth a place for your lips to go. Notch a place two inches from the mouth end like this:



Tap the bark gently to loosen it, and soak the branch in water. Then slide the bark off all in one piece. Cut a groove in the mouth end to the notch. Slide the bark on again. Keep the whistle wet and blow.

Slingshot Strummer: Find a Y-shaped branch to use. Put in three screws to use as pegs along one prong and stretch on three rubber bands. Use bands of the same size and scale your strings by stretching them so each one is tighter than the one below it.

Seashell Shakers: You will need two shells of nearly the same size and shape. Clam or oyster shells work well. Fill the shells with sand or pebbles and seal the edges with glue or tape. Shake them in the palm of your hand. A handle may be made of a branch by dividing one end and widening the space to a size large enough to fit one end of the shell. Slip the shell into the groove and secure with a cord.

Gourd Rattle: Select a well-shaped gourd with a narrow neck. Make sure the shell is hard and firm. Saw off the narrow neck and put it aside. Pull out the seeds and scrape out the mellon meat until the rind is smooth and hard. Dry the rind in the sun and shellac it. Fill the gourd with seeds, beans, rice, or pebbles. Glue the

neck of the gourd back on. Shake.

Walnut Castanets: Split a walnut in half and remove the nut meat. Drill two holes about half an inch from the edge of each half of the shell. Couple the two sections with string. Click together.

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From Music and Outdoor Education compiled by Debbie Furniss, Diane E. Smith, and Terry L. Smith.

Activity: Songs made up by students about their environment

Discipline area: Music

Objectives:

1. Children increase their awareness of the effects of pollution on the environment by making up rhymes to fit well-known tunes.
2. Children become more aware of music rhythm by setting their poetry to it.

Activities:

Following are songs made up by 8th grade students at Savanna Junior High School at Savanna, Illinois. Children may sing them and then make up and sing their own.

1. Tune: "Mary had a Little Lamb"
   Garbage lying all around, all around, all around.
   Garbabe lying all around clutters up the world.

2. Tune: "Twinkle, Twinkle, Little Star"
   Pollution, pollution everywhere
   Can't even take a breath of air.
   If you do you'll gag to death,
   Or you'll get an awful breath.
   Pollution, pollution everywhere,
   Can't even take a breath of air.

3. Tune: "Row, Row, Row Your Boat"
   Row, row, row your boat;
   Can't get down the stream.
   But there you sit with cans and things,
   That's what pollution brings.

From: Music and Outdoor Education by Debbie Furniss, Diane E. Smith, and Terry L. Smith.

Below is a list of songs that pertain to out-of-doors activities sounds, and animals. These selections might be useful in use with any child in any project.

Deserted Farm	MacDowell
Afternoon of a Faun	Debussy
American in Paris	Gershwin
Ballet of the Unhatched Chicks	Moussoursky
Beauty & the Beast from Mother Goose Suite	Ravel
Butterfly Etude	Chopin
Carnival of Animals	Saint-Saens
Cat's Fugue	Scarlatti
Clair de Lune	Debussy
Dagger Dance	Natoma
Dance Macabre	Saint-Saens
Desert Song	Romberg (a musical)
Diary of a Fly	Bela Bartok
Fireworks,Op.4	Stravinsky
Flight of a Bumblebee	Rimsky-Korsakov
Grand Canyon Suite	Ferde Grofe
Hansel and Gretel	Humperdinck
Hurdy-Gurdy Man	Goossens
Le Mer	Dubessy
Leap Frog from Children's Games	Bizet
Little White Donkey	Ibert
London Symphony (street sounds)	Vaugh Williams
Mystic Mood records (sounds of trains, rain, thunder,etc.)	
Night on Bald Mountain	Moussoursky
Nutcracker Suite	Tschaikovsky
Peter and the Wolf	Profoviev
Pines of Rome	Resphigi
Preludes (dead leaves,etc.)	Debussy
Scenes from Childhood	Schumann
Skater's Waltz	Franz Lehar
Sorcerer's Apprentice	Dukas
Street Scene	Kurt Weill (a musical)
Sleeping Beauty	Tschaikovsky
Swan Lake	Saint-Saens
The Bee	Schubert
The Firefly	Rudolf Friml
The Little Hunters	Kullak
The Moldau	Smetana
The Plow that Broke the Plains	Virgil Thomson
The Swan of Tuonela	Sibelius
The White Peacock	Griffes
Three Billy Goats Gruff	(Story Song)
To a Water Lily	MacDowell
To a Wild Rose	Schumann
To Spring	Grieg
Turkey in the Straw	Guion
West Side Story	Leonard Bernstein
William Tell Overture	Rossini
Wizard of Oz	(Story Song)
Wild Hoseman	Schumann